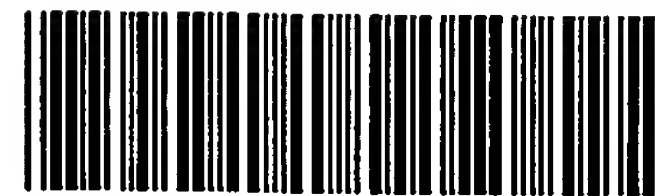


RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/664, 234B
Source: IFW16
Date Processed by STIC: 12/15/2006

ENTERED



IFW16

RAW SEQUENCE LISTING

DATE: 12/15/2006

PATENT APPLICATION: US/10/664,234B

TIME: 09:40:11

Input Set : A:\3240-105.ST25.txt

Output Set: N:\CRF4\12152006\J664234B.raw

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3 <110> APPLICANT: Ruan, Yijun
4      Ng, Patrick
5      Wei, Chialin
7 <120> TITLE OF INVENTION: Method for Gene Identification Signature (GIS) Analysis
9 <130> FILE REFERENCE: 3240-105
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/664,234B
12 <141> CURRENT FILING DATE: 2003-09-17
14 <160> NUMBER OF SEQ ID NOS: 29
16 <170> SOFTWARE: PatentIn version 3.3
18 <210> SEQ ID NO: 1
19 <211> LENGTH: 33
20 <212> TYPE: DNA
21 <213> ORGANISM: Artificial
23 <220> FEATURE:
24 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning
vector
27 <220> FEATURE:
28 <221> NAME/KEY: misc_feature
29 <222> LOCATION: (1)..(33)
30 <223> OTHER INFORMATION: n is a,c,g, or t
32 <220> FEATURE:
33 <221> NAME/KEY: misc_feature
34 <222> LOCATION: (1)..(33)
35 <223> OTHER INFORMATION: v is a,c,g
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41 <210> SEQ ID NO: 2
42 <211> LENGTH: 30
43 <212> TYPE: DNA
44 <213> ORGANISM: Artificial
46 <220> FEATURE:
47 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning
vector
50 <220> FEATURE:
51 <221> NAME/KEY: misc_feature
52 <222> LOCATION: (1)..(30)
53 <223> OTHER INFORMATION: n is a,t,c or g
55 <400> SEQUENCE: 2
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59 <210> SEQ ID NO: 3
60 <211> LENGTH: 20
61 <212> TYPE: DNA
62 <213> ORGANISM: Artificial
64 <220> FEATURE:

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65 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning vector

RAW SEQUENCE LISTING

DATE: 12/15/2006

PATENT APPLICATION: US/10/664,234B

TIME: 09:40:11

Input Set : A:\3240-105.ST25.txt

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67 <400> SEQUENCE: 3
68 gtcggatcca agcggccgcg                                20
71 <210> SEQ ID NO: 4
72 <211> LENGTH: 30
73 <212> TYPE: DNA
74 <213> ORGANISM: Artificial
76 <220> FEATURE:
77 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning
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80 <220> FEATURE:
81 <221> NAME/KEY: misc_feature
82 <222> LOCATION: (1)..(30)
83 <223> OTHER INFORMATION: n is a,t,c or g
85 <400> SEQUENCE: 4
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89 <210> SEQ ID NO: 5
90 <211> LENGTH: 19
91 <212> TYPE: DNA
92 <213> ORGANISM: Artificial
94 <220> FEATURE:
95 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning
vector
97 <400> SEQUENCE: 5
98 tcgacccagg atccaactt                                19
101 <210> SEQ ID NO: 6
102 <211> LENGTH: 13
103 <212> TYPE: DNA
104 <213> ORGANISM: Artificial
106 <220> FEATURE:
107 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning
vector
110 <220> FEATURE:
111 <221> NAME/KEY: misc_feature
112 <222> LOCATION: (1)..(13)
113 <223> OTHER INFORMATION: phosphorylation
115 <400> SEQUENCE: 6
116 gttggatcct ggg                                    13
119 <210> SEQ ID NO: 7
120 <211> LENGTH: 17
121 <212> TYPE: DNA
122 <213> ORGANISM: Artificial
124 <220> FEATURE:
125 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning
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127 <400> SEQUENCE: 7
128 gtaaaacgac ggccagt                                17
131 <210> SEQ ID NO: 8
132 <211> LENGTH: 19
133 <212> TYPE: DNA
134 <213> ORGANISM: Artificial
136 <220> FEATURE:
137 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning
vector

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139 <400> SEQUENCE: 8

RAW SEQUENCE LISTING

DATE: 12/15/2006

PATENT APPLICATION: US/10/664,234B

TIME: 09:40:11

Input Set : A:\3240-105.ST25.txt

Output Set: N:\CRF4\12152006\J664234B.raw

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140 ggaaacagct atgaccatg 19
143 <210> SEQ ID NO: 9
144 <211> LENGTH: 20
145 <212> TYPE: DNA
146 <213> ORGANISM: Artificial
148 <220> FEATURE:
149 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning
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151 <400> SEQUENCE: 9
152 taatacgact cactataggg 20
155 <210> SEQ ID NO: 10
156 <211> LENGTH: 22
157 <212> TYPE: DNA
158 <213> ORGANISM: Artificial
160 <220> FEATURE:
161 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning
vector
163 <400> SEQUENCE: 10
164 gatgtgctgc aaggcgatta ag 22
167 <210> SEQ ID NO: 11
168 <211> LENGTH: 23
169 <212> TYPE: DNA
170 <213> ORGANISM: Artificial
172 <220> FEATURE:
173 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning
vector
175 <400> SEQUENCE: 11
176 agcggataac aatttcacac agg 23
179 <210> SEQ ID NO: 12
180 <211> LENGTH: 48
181 <212> TYPE: DNA
182 <213> ORGANISM: Artificial
184 <220> FEATURE:
185 <223> OTHER INFORMATION: Oligionucleotide with homolgy to a bacteria cloning vector
188 <220> FEATURE:
189 <221> NAME/KEY: misc_feature
190 <222> LOCATION: (1)..(48)
191 <223> OTHER INFORMATION: n is a,t,c or g
193 <400> SEQUENCE: 12
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197 <210> SEQ ID NO: 13
198 <211> LENGTH: 48
199 <212> TYPE: DNA
200 <213> ORGANISM: Artificial
202 <220> FEATURE:
203 <223> OTHER INFORMATION: Oligionucleotide with homolgy to a bacteria cloning vector
206 <220> FEATURE:
207 <221> NAME/KEY: misc_feature
208 <222> LOCATION: (1)..(48)
209 <223> OTHER INFORMATION: n is a,t,c or g
211 <400> SEQUENCE: 13
W--> 212 gatccaactt nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnngtcg 48

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RAW SEQUENCE LISTING

DATE: 12/15/2006

PATENT APPLICATION: US/10/664,234B

TIME: 09:40:11

Input Set : A:\3240-105.ST25.txt

Output Set: N:\CRF4\12152006\J664234B.raw

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215 <210> SEQ ID NO: 14
216 <211> LENGTH: 29
217 <212> TYPE: DNA
218 <213> ORGANISM: Artificial
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221 <223> OTHER INFORMATION: Oligionucleotide primer with homolgy to a bacteria cloning
vector
224 <220> FEATURE:
225 <221> NAME/KEY: misc_feature
226 <222> LOCATION: (1)..(29)
227 <223> OTHER INFORMATION: phosphorylation
229 <400> SEQUENCE: 14
230 cgctctcctg taccgaccct gccgcttac 29
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234 <211> LENGTH: 29
235 <212> TYPE: DNA
236 <213> ORGANISM: Artificial
238 <220> FEATURE:
239 <223> OTHER INFORMATION: Oligionucleotide primer with homolgy to a bacteria cloning
vector
242 <220> FEATURE:
243 <221> NAME/KEY: misc_feature
244 <222> LOCATION: (1)..(29)
245 <223> OTHER INFORMATION: phosphorylation
247 <400> SEQUENCE: 15
248 aactatcgtc ttgagaccaa cccggtaag 29
251 <210> SEQ ID NO: 16
252 <211> LENGTH: 24
253 <212> TYPE: DNA
254 <213> ORGANISM: Artificial
256 <220> FEATURE:
257 <223> OTHER INFORMATION: Oligionucleotide adapter with homolgy to a bacteria cloning
258 vector
260 <400> SEQUENCE: 16
261 aattctcgag cggccgcgat atcg 24
264 <210> SEQ ID NO: 17
265 <211> LENGTH: 24
266 <212> TYPE: DNA
267 <213> ORGANISM: Artificial
269 <220> FEATURE:
270 <223> OTHER INFORMATION: Oligionucleotide adapter with homolgy to a bacteria cloning
271 vector
274 <220> FEATURE:
275 <221> NAME/KEY: misc_feature
276 <222> LOCATION: (1)..(24)
277 <223> OTHER INFORMATION: phosphorylation
279 <400> SEQUENCE: 17
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283 <210> SEQ ID NO: 18
284 <211> LENGTH: 3404
285 <212> TYPE: DNA

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RAW SEQUENCE LISTING

DATE: 12/15/2006

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TIME: 09:40:11

Input Set : A:\3240-105.ST25.txt

Output Set: N:\CRF4\12152006\J664234B.raw

286 <213> ORGANISM: Artificial

288 <220> FEATURE:

289 <223> OTHER INFORMATION: bacterial cloning vector

291 <400> SEQUENCE: 18

| | | | | | | | |
|-----|-------------|-------------|-------------|------------|------------|-------------|------|
| 292 | gggcgaattc | tcgagcggcc | gcggatccga | cgagagcgcc | tgcgtacggc | tcgccgcggt | 60 |
| 294 | ggctggcgct | acttcggagg | agcccgcgac | ggcgcggtcg | tttttataca | ttcccgcgcg | 120 |
| 296 | gaggcaacgg | aagggcgggg | cgcctcgtga | ttaggccgcg | gaggtcacag | gctctgttgt | 180 |
| 298 | catgaagggtg | aaaattaaat | gttggaaatg | tgtggccact | tggctctggg | tagccaatga | 240 |
| 300 | tgagaactgc | ggcatctgca | ggatggcggt | taatggctgc | tgtccagact | gtaagggtgcc | 300 |
| 302 | tggatgatgac | tgccccctcg | tgtggggaca | gtgctccac | tgttccaca | tgcactgcat | 360 |
| 304 | cctcaagtgg | ctgaatgcgc | agcagggtgca | gcagcactgc | cccatgtgtc | gccaggagtgc | 420 |
| 306 | gaagttcaaa | gagtgaagcc | cgtgccgtgc | cacttccctc | tcctgtgctg | tgccaggctc | 480 |
| 308 | agcccccttc | ctccctcccc | tccccagat | acagcacccc | aagtcccctc | cacacagcac | 540 |
| 310 | agtgggtgcc | agagatctcg | gtctgtgccg | gggacaagga | tgttttctgt | ttggctggga | 600 |
| 312 | caagggtgaa | aggagctttg | ctgactgttt | tgttttccca | tcacattgac | actttattca | 660 |
| 314 | ataagtaaaa | ctcattacag | ttccaagtcg | gatcctgggt | cgacctgcag | gcatgcaagc | 720 |
| 316 | ttgagtattc | tatagtgtca | cctaaatagc | ttggcgtaat | catggtcata | gctgtttcct | 780 |
| 318 | gtgtgaaatt | gttatccgct | cacaattcca | cacaacatac | gagccggaag | cataaagtgt | 840 |
| 320 | aaagcctggg | gtgcctaata | agtgaagctaa | ctcacattaa | ttgcgttgcg | ctcactgccc | 900 |
| 322 | gctttccagt | cgggaaacct | gtcgtgccag | ctgcattaat | gaatcggcca | acgcgcgggg | 960 |
| 324 | agaggcggtt | tgcgtattgg | gcgctcttcc | gcttccctcg | tcactgactc | gctgcgctcg | 1020 |
| 326 | gtcgttcggc | tgcggcgagc | ggatcagct | cactcaaagg | cggtaatacg | gttatccaca | 1080 |
| 328 | gaatcagggg | ataacgcagg | aaagaacatg | tgagcaaaag | gccagcaaaa | ggccagggaac | 1140 |
| 330 | cgtaaaaagg | ccgcgttgct | ggcggttttc | gataggctcc | gccccctga | cgagcatcac | 1200 |
| 332 | aaaaatcgac | gctcaagtca | gaggtggcga | aacccgacag | gactataaag | ataccaggcg | 1260 |
| 334 | tttccccctg | gaagctccct | cgtgcgctct | cctgtaccga | ccctgccgct | taccggatac | 1320 |
| 336 | ctgtccgctt | ttctcccttc | gggaagcgtg | gcgctttctc | atagctcacg | ctgtagggtat | 1380 |
| 338 | ctcagttcgg | tgtaggctcg | tcgctccaag | ctgggctgtg | tgcacgaacc | ccccgttcag | 1440 |
| 340 | cccgaaccgt | gcgccttata | cggtaactat | cgtcttgaga | ccaacccggt | aagacacgac | 1500 |
| 342 | ttatcgccac | tggcagcagc | cactggtaac | aggattagca | gagcgaggta | tgtaggcggt | 1560 |
| 344 | gctacagagt | tcttgaagtg | gtggcctaac | tacggctaca | ctagaaggac | agtatttggt | 1620 |
| 346 | atctgcgctc | tgttgaagcc | agttaccttc | ggaaaaagag | ttggtagctc | ttgatccggc | 1680 |
| 348 | aaacaaacca | ccgctggtag | cgggtggtttt | tttgtttgca | agcagcagat | tacgcgcaga | 1740 |
| 350 | aaaaaaggat | ctcaagaaga | tcctttgatc | ttttctacgg | ggtctgacgc | tcagtggaac | 1800 |
| 352 | gaaaactcac | gttaagggat | tttgggtcatg | agattatcaa | aaaggatctt | cacctagatc | 1860 |
| 354 | cttttaaat | aaaaatgaag | ttttaaatca | atctaaagta | tatatgagta | aacttgggtct | 1920 |
| 356 | gacagttacc | aatgcttaat | cagtgaaggca | cctatctcag | cgatctgtct | atttcgttca | 1980 |
| 358 | tccatagttg | cctgactccc | cgtcgtgtag | ataactacga | tacgggaggg | cttaccatct | 2040 |
| 360 | ggccccagtg | ctgcaatgat | accgcgagac | ccacgctcac | cggctccaga | tttatcagca | 2100 |
| 362 | ataaaccagc | cagccggaag | ggccgagcgc | agaagtggtc | ctgcaacttt | atccgcctcc | 2160 |
| 364 | atccagtcta | ttaattggtg | ccgggaagct | agagtaagta | gttcgccagt | taatagtgtg | 2220 |
| 366 | cgcaacgttg | ttggcattgc | tacaggcatc | gtggtgtcac | gctcgtcgtt | tggtaggtgc | 2280 |
| 368 | tcattcagct | ccggttccca | acgatcaagg | cgagttacat | gatcccccat | gttgtgcaaa | 2340 |
| 370 | aaagcggtta | gtccttcggt | tcctccgata | gttgtcagaa | gtaagtgggc | cgcagtgtta | 2400 |
| 372 | tcactcatgg | ttatggcagc | actgcataat | tctcttactg | tcatgccatc | cgtaagatgc | 2460 |
| 374 | ttttctgtga | ctggtagagta | ctcaaccaag | tcattctgag | aatagtgtat | gcggcgaccg | 2520 |
| 376 | agttgctctt | gcccggcgct | aatacgggat | aataccgcgc | cacatagcag | aactttaaaa | 2580 |
| 378 | gtgctcatca | ttggaaaacg | ttcttcgggg | cgaaaactct | caaggatctt | accgctgttg | 2640 |
| 380 | agatccagtt | cgatgtaacc | cactcgtgca | cccaactgat | cttcagcatc | ttttactttc | 2700 |

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/664,234B

DATE: 12/15/2006
 TIME: 09:40:12

Input Set : A:\3240-105.ST25.txt
 Output Set: N:\CRF4\12152006\J664234B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 33/
 Seq#:2; N Pos. 25,26,27,28,29,30
 Seq#:4; N Pos. 26,27,28,29,30
 Seq#:12; N Pos. 9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28
 Seq#:12; N Pos. 29,30,31,32,33,34,35,36,37,38,39,40,41,42
 Seq#:13; N Pos. 11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30
 Seq#:13; N Pos. 31,32,33,34,35,36,37,38,39,40,41,42,43,44

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,27,28
 Seq#:29

VERIFICATION SUMMARY

DATE: 12/15/2006

PATENT APPLICATION: US/10/664,234B

TIME: 09:40:12

Input Set : A:\3240-105.ST25.txt

Output Set: N:\CRF4\12152006\J664234B.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number
L:38 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:56 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:86 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:194 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0